



NIGHT VISION

Amstech Incorporated

340 Dewpoint Lane
Alpharetta, GA 30022 U.S.A.
Tel: +1-770-840-8039 Fax: +1-770-840-0269
Email: aimshot@aimshot.com

North America Distributor Osprey International, Inc. 1124 Tennessee Street, Suite 101 Cartersville, GA 30121 Fax: +1-770-387-0114 Customer Service: +1-770-387-4342 Email: sales@miniosprey.com

> Made in Belarus Packaged in the USA

Instruction Manual

NVS143

Table Of Contents

Important Instructions Page 2 Introduction Page 3 Specifications Page 4 Description Page 5 Prior To Operation Page 8 Mounting To Weapon Page 9 Adjustments Page 10 Page 11 Sight Adjustments Operational Tips Page 12 Operation Page 13 Trouble Shooting Page 16 Page 17 Warranty Acceptance Certificate Page 18 Please read this entire manual prior to operation of this device

(1)

ACCEPTANCE CERTIFICATE

Т	light Visior he code: ² erial #	n Weapon Sight NVS143 470.00	
Stamp		Production date	
		QC Representative	_
		Date of sale	_
Fastenu	ng bracket t	type	
	B63 (21,	,4мм) plank (Fig. 3)	
	Plank (8	315 мм) (Fig. 4)	
	Side pla	ank Saiga t ype	
	Plank	EVRO type	(18)

Warranty

The manufacturer warrants its product to be free of defects in material and workmanship for the duration of the warranty period. If the product proves to be defective in material or workmanship during the warranty period, the manufacturer will at its sole option repair or replace the product with a like product.

The NVS143 warranty period is 1 year from the date of purchase by an end user.

The warranty is only valid for the purchaser and is nontransferable. The warranty does not cover any product on which the serial number has been defaced, modified or removed. Damage, deterioration or malfunction resulting from accident, misuse, neglect, modification of the NVS143, acts of nature, or failure to follow instructions supplied with the product.

This warranty will be voided if the NVS143 have been disassembled in any way.

Important Instructions

Read all instructions prior to operation.

Do not use this sight in daylight with the lens cover removed, damage may occur to the unit.

Avoid aiming this sight towards bright light sources.

Avoid rotation of ranging unit flywheels above the setting range of the sight line corrections.

Keep the sight out of direct ingress of water.

Do not attempt to disassemble this device- the warranty will be voided.

If any problems occur contact the manufacturer.

Use only a damp cloth to clean the housing and lens tissue to clean the optics.

Always handle with care, avoid shocks, dust and debris.

If yourNVS143 is not working properly, please use the following trouble shooting tips.

(17)

(2)

Introduction

Thank you for purchasing the NVS143 night vision weapon sight.

The following items should be included in the package:

- NVS143 Night Weapon Sight
- Carry Case
- Manual
- IR Searchlight (optional)

This night vision sight is designed for hunting in low light and nighttime conditions. The NVS143 based on image intensifier tube EP33U (B8U) type (Gen. 1). It can be equipped with IR searchlight to operate in complete darkness (optional). Please avoid aiming at bright light sources during the operation. Please practice weapon safety at all times.

Trouble Shooting

If your NVS143 is not working properly, please use the following trouble shooting tips.

No Picture:

Check to make sure that the power switch is in the on position.

Check to see that the lens cover is off.

Replace the batteries.

Dark Picture:

Replace the batteries.

Low ambient light level.

Turn on the IR searchlight.

Move into higher ambient light.

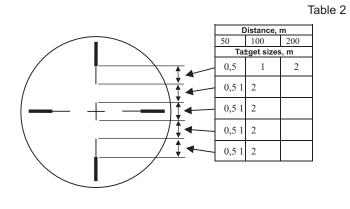
Black Spots:

Normal for all night vision and does not effect viewing or performance.

(3)

The sighting mark and a target sizes correlation

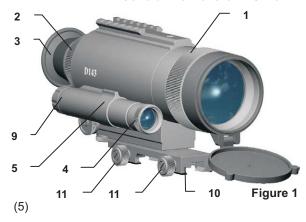
Specifications



Magnification	3x
Field Of View	12°
Min. Focus Distance	5 meters
Target detecting range:	
At the moonlight (1/4 moon)	200 m
In complete darkness (IR searchlight is on)	80110 m
Sight Mark Adj. Range	
at 50m Distance	± 1 m
at 100m Distance	± 2 m
Co±±ections mechanism scale division:	
- 50m Distance	15 mm
- 100m Distance	30 mm
Powe± Supply (CR123A Lithium batte±y)	3v
Batte±y Life	36 h±s.
Dimensions	220x80x100 mm
Weight	0,85 kg

(15)

DescriptionA General View of the NVS143



Illumination Rates

Table 1

Conditions	Illumination, lux		
Moonless night	0,01		
1/4 moon	0,05		
Moon	0,3		
Deep twilight	1,0		
Twilight	10		
Cloudy day	500		
Some clouds	5 000		
No clouds	50 000		

(14)

Operation

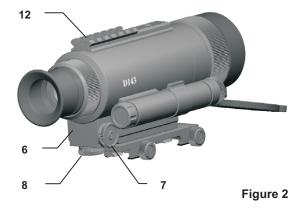
- Switch on the NVS143 with the rotary switch (5) (fig.1).
- Aim the NVS143 safely at an object. Adjust focus rings (1) and (2) (fig. 1)
- Switch on the IR Searchlight if necessary with the rotary switch (5) (fig.1) by turning it to IR position.

Warning! Setting of the high brightness level for a long time can damage the intensifier tube!

• Switch off the NVS141 when finished with operation. Always place the lens cap back on the unit prior to storage to protect the objective lens.

Always practice weapon safety.

Description



(13)

(6)

Description

- 1 Lens Focusing Ring
- 2 Eyepiece Focusing Ring
- 3 Eye Shield
- 4 IR Searchlight
- 5 Power ON/OFF Switch
- 6 Correction Mechanism
- 7 Horizontal Corrections Mechanism
- 8 Vertical Corrections Mechanism
- 9 Battery Compartment Cover
- 10 Fastening Bracket
- 11 Fastening Bracket Fixing Screws
- 12 Additional external units fastening plank

Operational Tips

Never turn the sight on in daytime or under the luminance upper than 5 lux (see table 1) without the lens cover attached to the front lens, damage may occur to the image tube if it is exposed to bright light sources.

Make sure that the device is attached firmly to your weapon base prior to taking a shot.

(7)

Sight Adjustments

To adjust proceed as follows:

- Set the weapon with the NVS143 on a solid base
- Take off the lens cover
- Turn the Sight ON with the switch (5) (fig.1)
- Set the sighting mark to the center position by turning correction mechanisms flywheels (fig.6)
- Perform ranging the weapon by shifting the sighting mark position using flywheels to align it with the firing line of your weapon
- Make the control shot
- Turn off the Sight and replace the lens cover

Prior To Operation

Battery Installation:

Check the lens cover to make sure it is attached.

Check the power ON/OFF switch (5) (fig.1) to be in the OFF position

Remove the battery compartment cover (9) (fig.1)

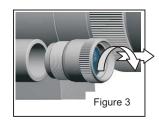
Install battery CR 123A into the compartment and replace cover.

IR Searchlight Installation

The Sight is equipped with LED based IR Searchlight. Laser-based one can be placed instead. Simply screw out the IR searchlight (counterclockwise) and screw in another one instead (Fig. 3).

Check Operation

Once pre operation is complete test the unit in a lit room with the daylight cover attached.



(11)

(8)

Mounting To Weapon

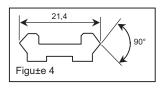
Weapon Fastening:

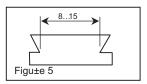
The NVS143 can be equipped with one the following fastening brackets (10) (fig.1):

- fastening bracket, which have the mounting dimensions of a standard weaver base 63B (21,4 mm) (fig. 4);
- 8...15 mm plank type bracket (fig.5);
- side plank Saiga type;
- plank EVRO type.

Your base must be firmly fastened to your weapon prior to attaching the D143 weapon sight.

Tighten the bracket screws (11) (fig.1).





Adjustments

Sighting Line Adjustment:

The botton corrections mechanism (6) (fig.1) body incorporates vertical corrections mechanism (8) to move the sighting mark up and dawn. The horizontal corrections mechanism (7) is in the side of the corrections mechanism body. The sighting mark moves left and right.

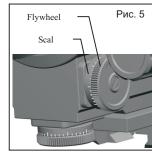


Figure 6

(10)

(9)